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TEST REPORT OF CEMENT CONCRETE CUBES

Format No CP/TF/01

Date: 17/08/2017

Lab ID	:	**CP 2018-12-11-55**
Customer	:	Assistant Executive Engineer, T. Dasarahali Sub Division, BBMP, Bangalore.
Address	:	T. Dasarahali Sub Division, BBMP, Bangalore.
Project Name	:	Site preparation and Beautification to Indira canteen in ward no. 14
Agency	:	Sri. Shrirama Reddy, no. 62, Behind of Widia, Ashok Nagar, Nagasandra, Bangalore - 73
Customer's Reference	:	ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-08-17
Sample ID No	:	2018-12-11-55 /03
Customer ID	:	RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	10/08/2017	17/08/2017	150.57 X 150.45 X 150.48	22653	8.312	394.2	17.4	17.4
2	RMC	M20	10/08/2017	17/08/2017	150.38 X 150.41 X 150.45	22619	8.331	402.6	17.8	
3	RMC	M20	10/08/2017	17/08/2017	150.52 X 150.49 X 150.44	22652	8.345	382.8	16.9	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No. TC- 5648

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP 2018-12-11-55** **Date: 07/09/2017**
Customer	:	Assistant Executive Engineer, T. Dasarahali Sub Division, BBMP, Bangalore
Address	:	T. Dasarahali Sub Division, BBMP, Bangalore.
Project Name	:	Site preparation and Beautification to Indira canteen in ward no. 14
Agency	:	Sri. Shrirama Reddy, no. 62, Behind of Widia, Ashok Nagar, Nagasandra, Bangalore - 73
Customer's Reference	:	ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಅ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-08-17
Sample ID No	:	2018-12-11-55 /04
Customer ID	:	RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	10/08/2017	07/09/2017	150.54 X 150.48 X 150.41	22653	8.312	534.6	23.6	23.4
2	RMC	M20	10/08/2017	07/09/2017	150.46 X 150.49 X 150.51	22643	8.331	518.5	22.9	
3	RMC	M20	10/08/2017	07/09/2017	150.57 X 150.43 X 150.35	22650	8.345	534.5	23.6	

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP 2018-12-11-55** **Date: 04-08-17**
Customer	:	Assistant Executive Engineer, T. Dasarahali Sub Division, BBMP, Bangalore
Address	:	T. Dasarahali Sub Division, BBMP, Bangalore.
Project Name	:	Site preparation and Beautification to Indira canteen in ward no. 14
Agency	:	Sri. Shrirama Reddy, no. 62, Behind of Widia, Ashok Nagar, Nagasandra, Bangalore - 73
Customer's Reference	:	ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-17
Sample ID No	:	2018-12-11-55 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	02-08-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	18	18	1.8	98.2	90-100	90-100	90-100	95-100
3	2.36 mm	185	203	20.3	79.7	60-95	75-100	85-100	95-100
4	1.18 mm	228	431	43.1	56.9	30-70	55-90	75-100	90-100
5	600 micron	187	618	61.8	38.2	15-34	35-59	60-79	80-100
6	300 micron	199	817	81.7	18.3	5-20	8-30	12-40	15-50
7	150 micron	132	949	94.9	5.1	0-10	0-10	0-10	0-15
8	Pan	51	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Certificate No. TC-5648

TEST REPORT OF FINE AGGREGATE

Lab ID : CP 2018-12-11-55

Sample ID No : 2018-12-11-55 /03

Date: 04-08-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.85	-
2	Specific Gravity	2.54	-
3	Material finer than 75 micron(%)	5.0	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/08/2017

Lab ID	:	**CP 2018-12-11-55**
Customer	:	Assistant Executive Engineer, T. Dasarahali Sub Division, BBMP, Bangalore.
Address	:	T. Dasarahali Sub Division, BBMP, Bangalore.
Project Name	:	Site preparation and Beautification to Indira canteen in ward no. 14
Agency	:	Sri. Shrirama Reddy, no. 62, Behind of Widia, Ashok Nagar, Nagasandra, Bangalore - 73
Customer's Reference	:	ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-08-17
Sample ID No	:	2018-12-11-55 /01
Customer ID	:	RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	10/08/2017	17/08/2017	150.52 X 150.55 X 150.44	22661	8.312	389.8	17.2	17.2
2	RMC	M20	10/08/2017	17/08/2017	150.46 X 150.39 X 150.42	22628	8.331	398.2	17.6	
3	RMC	M20	10/08/2017	17/08/2017	150.34 X 150.54 X 150.44	22632	8.345	380.2	16.8	

Note:

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Format No: CPTR/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP 2018-12-11-55** **Date: 07/09/2017**

Customer : Assistant Executive Engineer, T. Dasarahali Sub Division, BBMP, Bangalore.

Address : T. Dasarahali Sub Division, BBMP, Bangalore.

Project Name : Site preparation and Beautification to Indira canteen in ward no. 14

Agency : Sri. Shrirama Reddy, no. 62, Behind of Widia, Ashok Nagar, Nagasandra, Bangalore - 73

Customer's Reference : ಕಾ.ಆ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-08-17

Sample ID No : 2018-12-11-55 /02

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	10/08/2017	07/09/2017	150.56 X 150.45 X 150.47	22652	8.312	534.6	23.6	23.2
2	RMC	M20	10/08/2017	07/09/2017	150.43 X 150.38 X 150.52	22622	8.331	515.8	22.8	
3	RMC	M20	10/08/2017	07/09/2017	150.48 X 150.53 X 150.35	22652	8.345	523.3	23.1	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID	:	**CP 2018-12-11-55**
Customer	:	**Date: 31-08-17**
Address	:	Assistant Executive Engineer, T. Dasarahali Sub Division, BBMP, Bangalore
Project Name	:	T. Dasarahali Sub Division, BBMP, Bangalore
Agency	:	Site preparation and Beautification to Indira canteen in ward no. 14
Customer's Reference	:	Sri. Shrirama Reddy, no. 62, Behind of Widia, Ashok Nagar, Nagasandra, Bangalore - 73
Source of Sample	:	ಕಾ.ಆ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19
Sample Condition	:	Sample supplied by Agency
Date of Receipt	:	Satisfactory
Sample ID No	:	02-08-17
Sample Type	:	2018-12-11-55 /01
Reference to BIS codes	:	Birla Super 53grade
		IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification . IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-08-17
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP 2018-12-11-55** **Date: 05-08-17**

Sample ID No : 2018-12-11-55 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.62	-
4	Bulk Density(Loose) (Kg/l)	1.48	-
5	Bulk Density(Compacted) (Kg/l)	1.51	-
6	Water Absorption(%)	0.18	-

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